

Emergency work Disilting of drain
work in ward no-12 S.S-2
drains and other



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

ME OF WORK: Emergency Work (Disilting of Drain and Other Maintenance Works in Ward No.12)

Sl. No.	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	40.5	8	8
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-50 cum	49.5	8	8

ಸಹಾಯಕ ನಿರ್ದೇಶಕರು
ಶಿಬಿರ
ಬಹು
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.:

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-08-18-32 Date: 01-02-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Emergency Work (Disilting of Drain and Other Maintenance Works in Ward No.12
Agency : Sri..M/S Inchra Construction, #60 7th Cross Nandhi Nagara, Chikkabanavara Bangalore-560090
Customer's Reference : EE/DD/VO/342/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-01-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 30-01-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.44	-
2	Fineness by Air permeability method (m ² /kg, Min)	255.6	225m ² /kg, Min
3	Density (gm/cc)	3.11	-
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

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KARTHIK RECHAN

Authorized Signatory
Quality Manager

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Emergency work done in ward no. 12 drains and other



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Certificate No.

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-18-32 Date: 31-01-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Emergency Work (Disilting of Drain and Other Maintenance Works in Ward No.12
Agency : Sri..M/S Inchra Construction, #60 7th Cross Nandhi Nagara, Chikkabanavara Bangalore-560090
Customer Reference : EE/DD/WO/342/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-01-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 29-01-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	-

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Emergency work including drains and
work in ward no-12 S.S. Division.
drains and other



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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2020-08-18-32

Date: 01-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.55	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.22	—

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Authorized Signatory
Quality Manager

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ಕಾರ್ಯಕರ್ತೃಗಳಿಗೆ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ, ಸಂಶೋಧನೆ, ಸಾರ್ವಜನಿಕ ಸೇವೆ
ಬೃಹತ್ ಮೊತ್ತದಲ್ಲಿ ಮನೆಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಜಲಕ್ಷ್ಮಿಗರ, ಬೆಂಗಳೂರು.

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Emergency work Disilting of drain
and work in ward no-12 S.S.
drains and other



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-18-32 Date: 01-02-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Emergency Work (Disilting of Drain and Other Maintenance
Works in Ward No.12
Agency : Sri..M/S Inchra Construction, #60 7th Cross Nandhi Nagara,
Chikkabanavara Bangalore-560090
Customer's Reference : EE/DD/WO/342/18-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 29-01-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 29-01-20

ಕೆ.ಎಂ.ಎಸ್. ಇಂಚ್ರಾ ಕನ್ಸ್ಟ್ರಕ್ಷನ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್
ಬೆಂಗಳೂರು
ಇಂಚ್ರಾ ಕನ್ಸ್ಟ್ರಕ್ಷನ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್
ಬೆಂಗಳೂರು

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-08-18-32 Date: 27-02-20

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work (Disilting of Drain and Other Maintenance Works in Ward No.12

Agency : Sri..M/S Inchra Construction, #60 7th Cross Nandhi Nagara, Chikkabanavara Bangalore-560090

Customer's Reference : EE/DD/WO/342/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 30-01-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2020-08-18-32 Date: 31-01-20

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Emergency Work (Disilting of Drain and Other Maintenance Works in Ward No.12

Agency : Sri..M/S Inchra Construction, #60 7th Cross Nandhi Nagara, Chikkabanavara Bangalore-560090

Customer's Reference : EE/DD/VO/342/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 30-01-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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ಶಿಕ್ಷಣ, ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಪುರಂ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
[ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಜೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.



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Emergency work involving drains and other
work in ward no-12 S.S. Division.



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2020-08-18-32

Date: 31-01-20

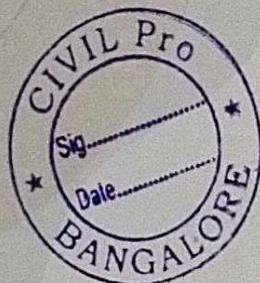
PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

ಹಣಕಾಸು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪರೀಕ್ಷೆ ಪಡೆಯಿತು

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Handwritten signature of R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-554

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-08-18-32 Date: 31-01-20
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Emergency Work (Disilting of Drain and Other Maintenance Works in Ward No.12
Agency : Sri..M/S Inchra Construction, #60 7th Cross Nandhi Nagara, Chikkabanavara
Bangalore-560090
Customer's Reference : EE/DD/WO/342/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-01-20
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 29-01-20

Total weight taken 1000 grams

Sl.No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

CP-2020-08-18-32

Date: 31-01-20

Lab ID

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.57	—
6	Water Absorption(%)	0.25	—
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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